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ATTORNEY DOCKET NO. 7027.0001-00

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Re: New U.S. Patent Application
Title: A COMPUTERIZED SYSTEM AND METHOD FOR
CREATING A BUY BACK STOCK INVESTMENT REPORT
Inventor: David R. Fried

Sir:

We enclose the following papers for filing in the United States Patent and Trademark Office in connection with the above patent application.

1. Application - 19 pages, including one cover page, 3 independent claims, and 20 claims total.
2. Drawings - 2 sheets of drawings.
3. A check for \$ 790.00 filing fee.

This application is being filed under the provisions of 37 C.F.R. § 1.53(f). Applicant awaits notification from the Patent and Trademark Office of the time set for filing the Declaration.

Please accord this application a serial number and filing date.

Assistant Commissioner for Patents

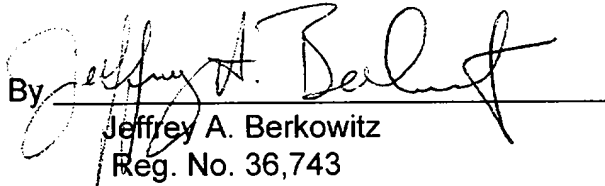
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The Commissioner is hereby authorized to charge any additional filing fees due and any other fees due under 37 C.F.R. § 1.16 or § 1.17 during the pendency of this application to our Deposit Account No. 06-0916.

Respectfully submitted,

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Enclosures

Attorney Docket No.: 07027.0001

UNITED STATES PATENT APPLICATION

of

David R. FRIED

For

**A COMPUTERIZED SYSTEM AND METHOD FOR CREATING
A BUYBACK STOCK INVESTMENT REPORT**

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BACKGROUND

Field of Invention

The present invention relates generally to the field of investment portfolio management. More particularly, the present invention relates to a computerized method and system for creating a stock investment report based on a buyback investment strategy.

Description of Related Art

Investment in accordance with the stock buyback theory is based on the premise that a company's management is in the best position to determine when the company stock is over or under valued. Further, it has been postulated that companies announcing a stock buyback tend to outperform the overall market. For example, in the article entitled "Market Underreaction to Open Market Share Repurchases," by D. Eikenberry and J. Lakonishok, Journ. of Finance (1994), the authors demonstrate that companies announcing stock buybacks outperformed the market by a margin of up to 9% in the four years after the initial repurchase announcement. The study did not follow the companies, however, to determine their performance for any action, (i.e., actual repurchase to decrease the percentage of outstanding shares) after the announcements were made. Conversely, in "The New Issues Puzzle," by J. Ritter and T. Loughran, Journ. of Finance (1996), the authors demonstrated that companies issuing shares, whether through an initial public offering (IPO) or secondary offering, underperformed the market by 7% annually during a five year period after the stock's issuance. These studies demonstrate a company's ability to buy low and sell high in

terms of their own stock. Currently, there is conflicting literature, however, as to whether companies actually repurchasing their stock outperform others in the market.

To develop successful investment strategies, financial advisers currently rely on a myriad of theories and factors in an attempt to find the best investment vehicles for their clients. These theories are often based on age-old economic trends or newly developed calculations and stock screening techniques. One such recognized value factor for predicting or analyzing company performance is the price/sales ratio. The price/sales ratio is the relationship of a company's stock price to its annual sales (or revenues) per share. In the book, What Works on Wall Street, by J. P. O'Shanunnasey (1996), the author showed that the 50 stocks with the lowest price/sales ratio outperformed the market by an average of 4.27 percentage points from December 31, 1952 to December 31, 1994. This level of outperformance was greater than the difference produced by any single variable.

There is, however, no single method that combines the performance of the price/sales ratio with the buyback theory to maximize the performance of a stock investment portfolio. In fact, many experts in the field discount the importance of buyback statistics, and those recognizing its potential have not thought to combine it with a company's price/sales statistics.

Therefore, there exists a need for an investment strategy that automatically determines those companies buying back the greatest percentage of their stock while maintaining the lowest price/sales ratio. The results of this method should help

investors develop a strategy that combines the benefits of the price/sales ratio value factor with the stock buyback theory.

SUMMARY OF THE INVENTION

Systems and methods consistent with the present invention address these needs by combining data processing and information gathering techniques with a computer apparatus to determine those companies with the highest stock buyback percentage and lowest price/sales ratio.

Specifically, in accordance with the purpose of the invention as embodied and broadly described herein, a method executed by a computer with access to a database of stock information is provided for creating a buyback investment report. The method includes the steps of: receiving a request specifying a selection of stocks from a database of stock information; selecting criteria for screening the selection of stock, wherein the selected criteria consists of a buyback ratio and at least one of price/sales ratio and a price/earnings ratio for each stock, screening the selection of stocks the screening process including the substeps of identifying the stocks from the specified selection having buyback ratios, wherein a buyback ratio corresponds to a percentage of issued stock repurchased from the public during a specified period resulting in a decrease of shares outstanding, and identifying a price/sales ratio or price/earnings in the group for each such stock of a subset of the stocks having buyback ratios, wherein the subset is determined based on the buyback ratio for each stock; and ranking stocks within the subset based on the price/sales ratio or price/earnings for each stock,

wherein the stock having the lowest price/sales ratio or price/earnings ratio is ranked the highest.

The summary and the following detailed description should not restrict the scope of the claimed invention. Both provide examples and explanations to enable others to practice the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate systems and methods consistent with this invention and, together with the description, explain the principles of the invention.

In the drawings,

Fig. 1 is a block diagram of a computerized stock portfolio management system consistent with the present invention; and

Fig. 2 is a block diagram of a method of automatically generating a buyback investment report consistent with the present invention.

DETAILED DESCRIPTION

The following description of embodiment of this invention refers to the accompanying drawings. Where appropriate, the same reference numbers in different drawings refer to the same or similar elements.

Systems and methods consistent with the present invention provide investors with the means to select an investment group based on a set of selection criteria

consisting of a buyback ratio and price/sales or price/earnings ratio to improve investment return.

Fig. 1 is a block diagram showing a computerized system for generating a buyback stock report. Preferably, system 100 comprises a standard computer terminal capable of receiving user initiated input commands, processing data, and outputting the results for the user (for example, an IBM compatible personal computer would meet these requirements). System 100 consists of RAM 110, hard disk 120, telephone port 130, Central Processor Unit (CPU) 140, mouse 150, keyboard 160, video display 170, and a printer 180. These components may be standard off-the-shelf hardware. For example, CPU 140 may be a Pentium processor, and video display 170 may be a NEC MultiSync 3V monitor. Telephone port 130 connects CPU 140 to a public switched telephone network (PSTN).

Preferably, hard disk 120 includes a database 125 of company stock profiles including detailed information fields. Stock information database 125 is preferably input to system 100 via standard data transfer methods, such as a magnetic media exchange or manual keyboard transcription. Once entered, the stock information database 125 is stored on hard disk 120. The Equity Portfolio Investment Computing (EPIC) database from Ford Investment Services, Inc. is an example of a stock information database suitable for use with systems consistent with the present invention. Stock database 125 may also be stored at a remote location and accessed via a secure network through a PSTN and telephone port 130 or a carrier wave from a server on the Internet.

Moreover, database 125 could be stored on a computer readable media such as a

floppy disk, a CD-ROM, a optical disk, etc., and accessed when the following method is executed.

Fig. 2 is a flow diagram showing a method 200 for generating a buyback stock report consistent with the present invention. Method 200 is implemented with system 100 to generate a stock investment portfolio and establish a buyback investment strategy. Preferably, stock database 125 has been previously stored in the hard disk 120, or is located on one of the alternative media, as noted above.

Initially, a user selects a group of stocks to search. This request is entered into system 100 by the user with keyboard 160 or some other standard input apparatus, such as a microphone or mouse 150. Any selection of stocks can be searched with the present embodiment, but preferably the selection consists of stocks in the Standard and Poor's 500 or the Dow Jones Industrial Average. Upon receiving the request (Step 210), system 100 screens the selection in accordance with selection criteria received by the user (Step 220). The screening step is preformed by the various components of the computer, in conjunction with software stored on a computer readable medium or embedded in RAM 110. The computer component uses conventional searching and processing techniques, such as text based searching, data field searching, or the like.

In the preferred embodiment, the selection criteria consists of a company's buyback ratio and either the price/sales ratio or the price/earnings ratio. The buyback ratio is the percentage of stocks repurchased by the issuing company over a given period that results in a net percentage decrease of the outstanding shares. Further, companies within the selection of stocks preferably have a market capitalization value

to identify the value of the company, and the selection criteria consists of price/sales ratio or price/earnings ratio depending on whether the company value is in the higher or lower half, respectively, of a market capitalization value table preferably stored within database 125.

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The selection criteria of the present invention has been empirically proven to outperform other selection criteria over the same time period. For example, testing has shown that the buyback ratio in conjunction with price/sales or price/earnings ratio criteria resulted in a portfolio with an annual return rate of 24.4 percentage points from November 30, 1982 to November 30, 1996. Further, larger portfolios developed using these particular selection criteria consistently outperformed the Standard and Poor 500 by 9.23 % annually (*i.e.*, 26.29 % verses 17.06 %, respectively). These statistics demonstrate that the selection criteria provide results superior to other previously disclosed combination of stock screening criteria.

System 100 uses the selection criteria to screen the selection of stocks by first, identifying a buyback subset within the selection of stocks (Step 232). For the purposes of the preferred embodiment, the buyback subset comprises those companies repurchasing their outstanding stock during a given period, thereby decreasing the percentage of outstanding shares. The period, which the user includes in his initial request, can be for any time period (*i.e.*, 6 month, 12 months, 5 years, etc.) depending upon the investor's particular investment criteria. Ideally, the user performs method 200 several times, and thereby determines the optimal time period for which to gather data.

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5 In the preferred embodiment, the user defines the level of buyback that constitutes a valuable selection criteria. This level is based upon buyback criteria stored within database 125, such as the percentage of outstanding stocks repurchased that cause a decrease in the number of shares outstanding, the average price of stocks repurchased, the overall volume of stocks repurchased during the selected period, the price yield--dividends paid per dollar invested, or price book value, etc. Other factors for selecting the buyback subset are equally within the scope of the present invention.

10 While these parameters (*i.e.*, buyback level, time period, etc.) are preferably included with the initial request, they may be entered at various points throughout the performance of method 200. In this alternate embodiment, the user would be prompted via monitor 170 to enter a particular selection parameter that system 100 needed to perform its next processing step.

15 After determining the buyback subset, system 100 identifies those companies in the buyback subset with the lowest price/sales ratio or lowest price/earnings ratio (Step 234). Preferably, the user also informs system 100 what level of price/sales ratio or price earnings ratio is too high to be of interest to the investor. Again, in the preferred embodiment, the initial selection request may include this level, or the user could be prompted via monitor 170 to input his or her particular selection parameter.

20 Next, the screened stocks are ranked to provide a listing satisfying the criteria input by the user (Step 240). Preferably, ranking is done to give the user a workable listing of stocks in an order best suited for evaluation and investment. In the preferred embodiment, the screened stocks are ranked from lowest to highest price/sales ratio or

lowest to highest price/earnings ratio. Finally, the ranking of stocks are generated and output by system 100 in the form of an investment report (Step 250). While this report is outputted directly to printer 180, the report may be, alternatively, stored on a standard computer storage medium such as a CD-Rom, a floppy disk, or data tape, for later use or manipulation by the user. Once stored, the stock report, or portfolio, can be rebalanced over a business investment period to determine the particular period (*i.e.*, monthly, annually, quarterly, etc.) that would provide the best results for the investor. Rebalancing is a known method of reevaluating the stocks in the portfolio to determine whether the companies contained therein meet the particular investment criteria originally defined.

It will be appreciated by those skilled in this art that various modifications and variations can be made to the method and system consistent with the present invention described herein without departing from the spirit and scope of the invention. Other embodiments of the invention will be apparent to those skilled in this art from consideration of the specification and practice of the invention disclosed herein. For example, while the preferred embodiment is described in terms of a local processing machine, one skilled in the art will recognize that the processing could be performed remotely by one or many computing systems. This remote processing would occur, for example, if a service provided users with phone-line access to a stock database, and chose to perform the processing procedures, for a fee, where the database resided. In this case, the output could be forwarded to the user via standard electronic means (*i.e.*, e-mail) or other communication methods (*i.e.*, fax, mail, etc.).

THE UNIVERSITY OF CHICAGO

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Claims:

1. A computer implemented method for creating a buyback investment report comprising the steps of:

receiving a request specifying a selection of stocks from a database of stock information;

selecting criteria for screening the selection of stock, wherein the selected criteria consists of a buyback ratio and at least one of price/sales ratio and a price/earnings ratio for each stock,

screening the selection of stocks, the screening process including the substeps of

identifying the stocks from the specified selection having buyback ratios, wherein a buyback ratio corresponds to a percentage of issued stock repurchased from the public during a specified period and resulting in a decrease of shares outstanding, and

identifying a price/sales ratio or price/earnings in the group for each such stock of a subset of the stocks having buyback ratios, wherein the subset is determined based on the buyback ratio for each stock; and ranking stocks within the subset based on the price/sales ratio or price/earnings for each stock, wherein the stock having the lowest price/sales ratio or price/earnings ratio is ranked the highest.

2. The method of claim 1, wherein the database includes a market cap value table

for identifying the market cap value of each company, and wherein the substep of identifying a price/sales ratio or price/earnings includes the substeps of

selecting the price/sales ratio for the companies in a top half of market cap table; and

selecting the price/earnings ratio for the companies in a bottom half of market cap table.

3. The method of claim 1, wherein the request specifies the Standard and Poor index, and wherein the screening step includes the substeps of
searching the Standard and Poor index within the database; and
identifying the companies having buyback ratios in the Standard and Poor index.
4. The method of claim 1, wherein the request specifies the Dow Jones Industrial Average, and wherein the screening step includes the substeps of
searching the Dow Jones Industrial Average within the database; and
identifying the companies having buyback ratios in the Dow Jones Industrial Average.
5. The method of claim 1, wherein the selection criteria includes a buyback level and the substep of identifying the companies having buyback ratios further includes the substep of

identifying the companies in accordance with the buyback selection level.

6. The method of claim 5, wherein the buyback selection level is a price value of stocks repurchased.
7. The method of claim 5, wherein the buyback selection level is a numerical volume of stocks repurchased.
8. The method of claim 1, further including the steps of
generating an investment report comprising the ranking of stocks; and
outputting the investment report.
9. The method of claim 8, wherein the outputting step of includes the substep of
storing the investment report on a storage medium.

10. A computerized investment management system for creating an investment report, comprising:

means for receiving a request specifying a selection of stocks from a database of stock information;

means for selecting criteria for screening the selection of stock, wherein the selected criteria consists of a buyback ratio and at least one of price/sales ratio and a price/earnings ratio for each stock,

means for screening the selection of stocks including

means for identifying the stocks from the specified selection having buyback ratios, wherein a buyback ratio corresponds to a percentage of issued stock repurchased from the public during a specified period and resulting in a decrease of shares outstanding, and

means for identifying a price/sales ratio or price/earnings in the group for each such stock of a subset of the stocks having buyback ratios, wherein the subset is determined based on the buyback ratio for each stock; and

means for ranking stocks within the subset based on the price/sales ratio or price/earnings for each stock, wherein the stock having the lowest price/sales ratio or price/earnings ratio is ranked the highest.

11. The system of claim 10, wherein the database includes a market cap value table for identifying the market cap value of each company, and wherein the means for

identifying a price/sales ratio or price/earnings includes

means for selecting the price/sales ratio for the companies in a top half of market cap table; and

means for selecting the price/earnings ratio for the companies in a bottom half of market cap table.

12. The system of claim 10, wherein the request specifies the Standard and Poor index, and wherein the means for screening includes

means for searching the Standard and Poor index within the database;

and

means for identifying the companies having buyback ratios in the Standard and Poor index.

13. The system of claim 10, wherein the request specifies the Dow Jones Industrial Average, and wherein the means for screening includes

means for searching the Dow Jones Industrial Average within the database; and

means for identifying the companies having buyback ratios in the Dow Jones Industrial Average.

14. The system of claim 10, wherein the selection criteria includes a buyback level and the means for identifying the companies having buyback ratios further

includes

means for identifying the companies in accordance with the buyback selection level.

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15. The system of claim 14, wherein the buyback selection level is a price value of stocks repurchased.

16. The system of claim 14, wherein the buyback selection level is a numerical volume of stocks repurchased.

17. The system of claim 10, further including
means for generating an investment report comprising the ranking of
stocks; and
means for outputting the investment report.

18. The system of claim 17, wherein outputting means includes
means for storing the investment report on a storage medium.

19. A computer program product for generating a buyback investment report comprising:

a receiving module configured to receive a request specifying a selection of stocks from a database of stock information;

a selecting module configured to select criteria for screening the selection of stock, wherein the selected criteria consists of a buyback ratio and at least one of price/sales ratio and a price/earnings ratio for each stock,

a screening module configured to screen the selection of stocks including

a first identifying module configured to identify the stocks from the specified selection having buyback ratios, wherein a buyback ratio corresponds to a percentage of issued stock repurchased from the public during a specified period and resulting in a decrease of shares outstanding, and

a second identifying module configured to identify a price/sales ratio or price/earnings in the group for each such stock of a subset of the stocks having buyback ratios, wherein the subset is determined based on the buyback ratio for each stock; and

a ranking module configured to rank stocks within the subset based on the price/sales ratio or price/earnings for each stock, wherein the stock having the lowest price/sales ratio or price/earnings ratio is ranked the highest.

20. The computer program product of claim 20, wherein the database includes a

market cap value table for identifying the market cap value of each company,
and wherein the second identifying module includes

a first selecting module configured to select the price/sales ratio for the
companies in a top half of market cap table; and

a second selecting module configured to select the price/earnings ratio for
the companies in a bottom half of market cap table.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were cultured in the YEA medium for 24 h at 28°C. The cell concentration of the *Agrobacterium* suspension was adjusted to 10⁸ cells/ml. The *Agrobacterium* suspension was then mixed with the plant tissue and the transformation efficiency was determined. The results are shown in Table 1.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were cultured in the YEA medium for 24 h at 28°C. The cell concentration of the *Agrobacterium* suspension was adjusted to 10⁸ cells/ml. The *Agrobacterium* suspension was then mixed with the plant tissue and the transformation efficiency was determined. The results are shown in Table 1.

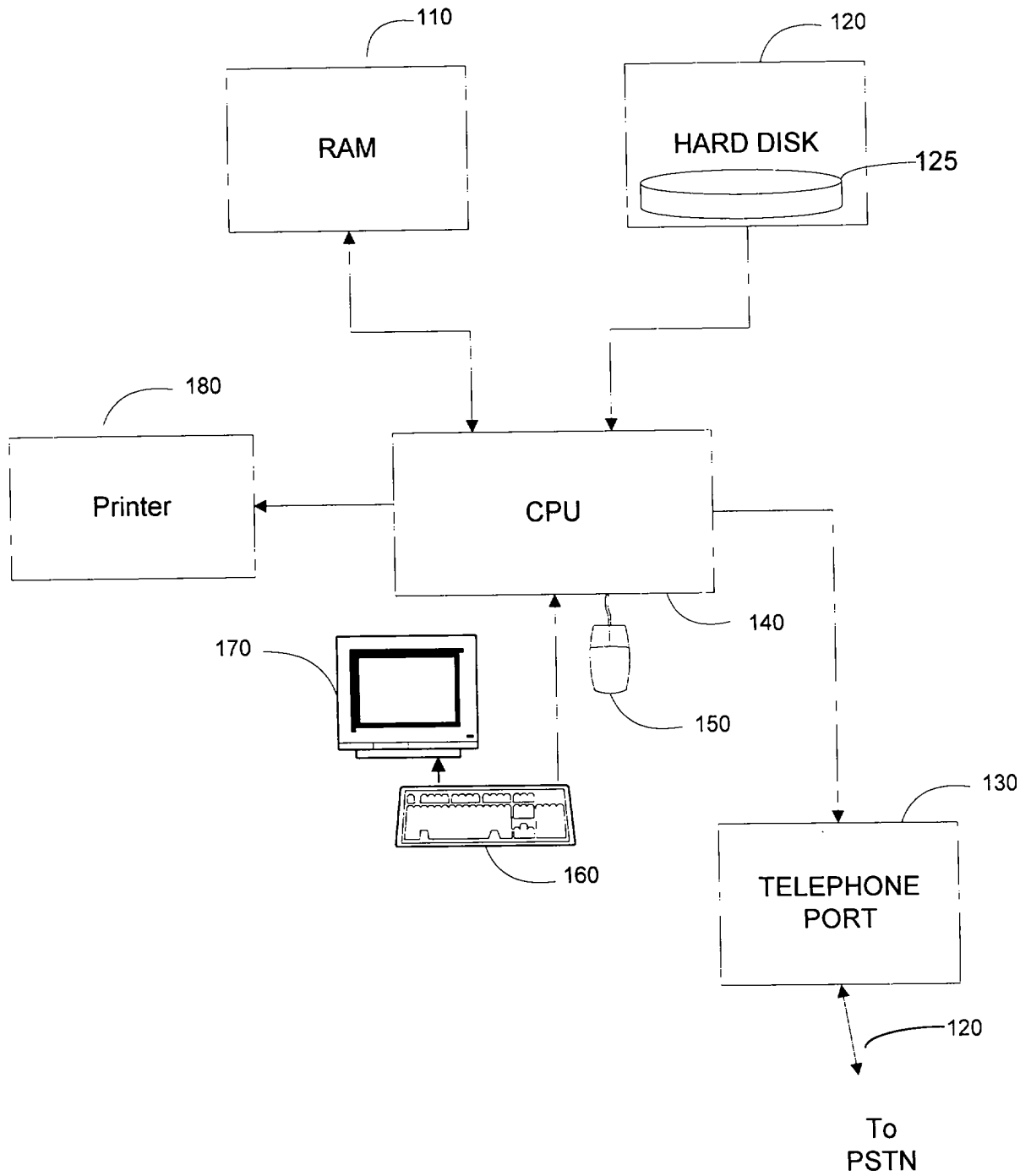
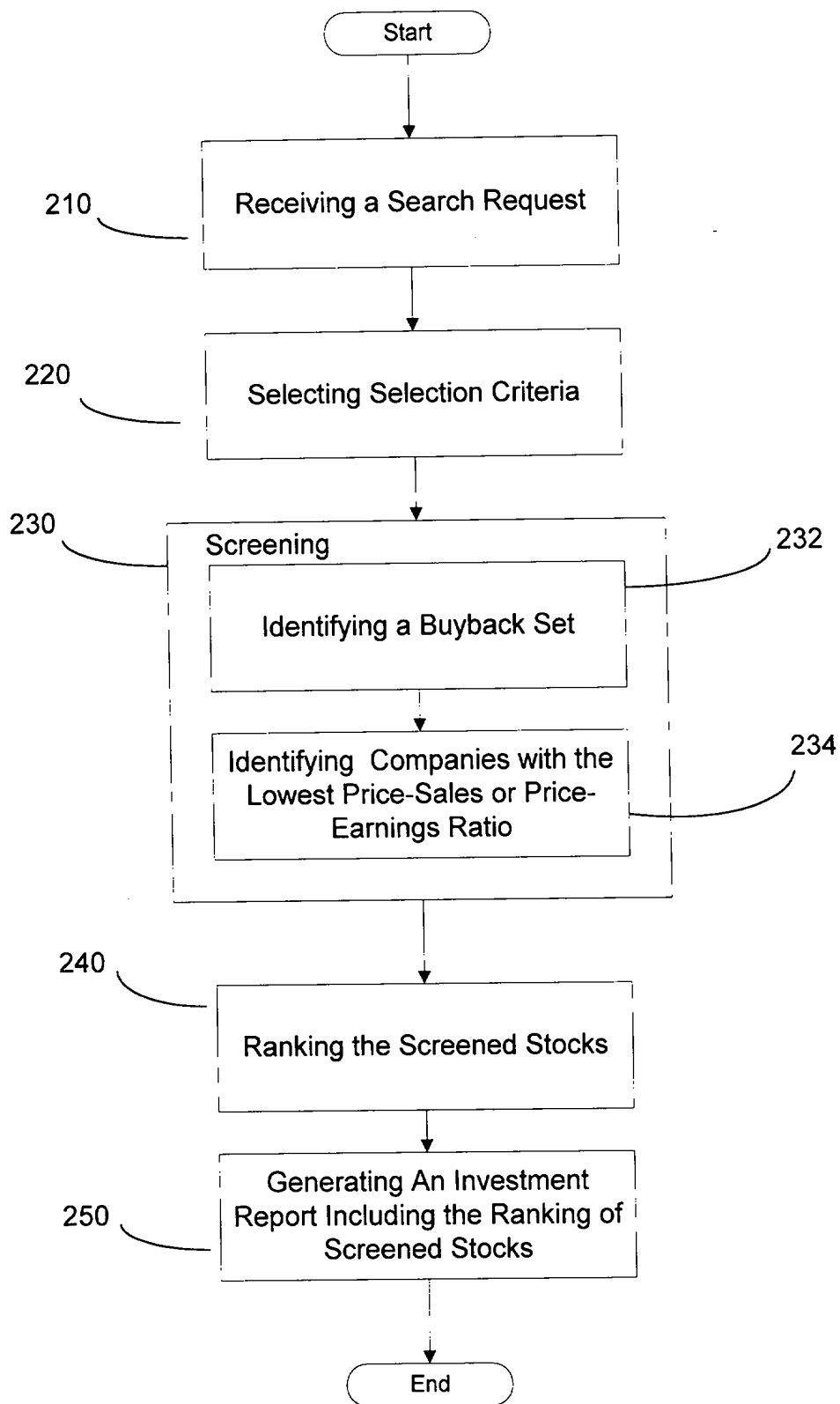


FIG. 1

**FIG. 2**

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: A COMPUTERIZED SYSTEM AND METHOD FOR CREATING A BUY BACK STOCK INVESTMENT REPORT, the specification of which was filed in the U.S. Patent and Trademark Office on February 26, 1998, and accorded Serial No. 09/030,854.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Country (if PCT indicate PCT)	Application Number	Date of Filing (day, month, year)	Priority Claimed Under 35 USC 119

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

U.S. Applications		Status (Check One)		
U.S. Application Number	U.S. Filing Date	Patented	Pending	Abandoned

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Reg. No. 22,540**, Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilley, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; and J. Michael Jakes, Reg. No. 32,824. Please address all correspondence to **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**, 1300 I Street, N.W., Washington, D.C. 20005, Telephone No. (202) 408-4000.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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